

# Environmental Protection Agency

# § 53.20

Pollutant	Reference or equivalent	Manual or automated	Applicable part 50 appendix	Applicable subparts of part 53					
				A	B	C	D	E	F
O <sub>3</sub> .....	Reference .....	Automated .....	C	✓	✓	✓			
	Automated .....	Automated .....	D	✓	✓				
	Equivalent .....	Manual .....	D	✓		✓			
NO <sub>2</sub> .....	Reference .....	Automated .....	D	✓	✓	✓			
	Automated .....	Automated .....	F	✓	✓				
	Equivalent .....	Manual .....	F	✓		✓			
Pb .....	Reference .....	Automated .....	F	✓	✓	✓			
	Automated .....	Manual .....	G						
	Equivalent .....	Manual .....	G	✓		✓			
PM <sub>10</sub> -Pb ...	Reference .....	Automated .....	G	✓		✓			
	Automated .....	Manual .....	Q						
	Equivalent .....	Manual .....	Q	✓		✓			
PM <sub>10</sub> .....	Reference .....	Automated .....	Q	✓		✓			
	Automated .....	Manual .....	J	✓			✓		
	Equivalent .....	Manual .....	J	✓		✓	✓		
PM <sub>2.5</sub> .....	Reference .....	Automated .....	J	✓		✓	✓		
	Automated .....	Manual .....	L	✓				✓	
	Equivalent Class I	Manual .....	L	✓				✓	
	Equivalent Class II	Manual .....	L <sup>1</sup>	✓		✓ <sup>2</sup>		✓	✓ <sup>1 2</sup>
	Equivalent Class III.	Automated .....	L <sup>1</sup>	✓		✓		✓	✓ <sup>1</sup>
PM <sub>10-2.5</sub> ...	Reference .....	Manual .....	L, O	✓				✓	
	Equivalent Class I	Manual .....	L, O	✓		✓		✓	
	Equivalent Class II	Manual .....	L, O	✓		✓ <sup>2</sup>		✓	✓ <sup>1 2</sup>
	Equivalent Class III.	Automated .....	L <sup>1</sup> , O <sup>1</sup>	✓		✓		✓	✓ <sup>1</sup>

1. Some requirements may apply, based on the nature of each particular candidate method, as determined by the Administrator.
2. Alternative Class III requirements may be substituted.

[75 FR 35597, June 22, 2010]

## APPENDIX A TO SUBPART A OF PART 53—REFERENCES

(1) American National Standard Quality Systems—Model for Quality Assurance in Design, Development, Production, Installation, and Servicing, ANSI/ISO/ASQC Q9001-1994. Available from American Society for Quality, P.O. Box 3005, Milwaukee, WI 53202 (<http://qualitypress.asq.org>).

(2) American National Standard Quality Systems for Environmental Data and Technology Programs—Requirements with guidance for use, ANSI/ASQC E4-2004. Available from American Society for Quality P.O. Box 3005, Milwaukee, WI 53202 (<http://qualitypress.asq.org>).

(3) Dimensioning and Tolerancing, ASME Y14.5M-1994. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.

(4) Mathematical Definition of Dimensioning and Tolerancing Principles, ASME Y14.5.1M-1994. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.

(5) ISO 10012, Quality Assurance Requirements for Measuring Equipment-Part 1: Meteorological confirmation system for measuring equipment):1992(E). Available from American Society for Quality Control, 611 East Wisconsin Avenue, Milwaukee, WI 53202.

(6) Quality Assurance Guidance Document 2.12. Monitoring PM<sub>2.5</sub> in Ambient Air Using Designated Reference or Class I Equivalent Methods. U.S. EPA, National Exposure Research Laboratory, Research Triangle Park, NC, November 1998 or later edition. Currently available at <http://www.epa.gov/ttn/amtic/pmqainf.html>.

[62 FR 38784, July 18, 1997, as amended at 71 FR 61278, Oct. 17, 2006]

## Subpart B—Procedures for Testing Performance Characteristics of Automated Methods for SO<sub>2</sub>, CO, O<sub>3</sub>, and NO<sub>2</sub>

SOURCE: 76 FR 54326, Aug. 31, 2011, unless otherwise noted.

### § 53.20 General provisions.

(a) The test procedures given in this subpart shall be used to test the performance of candidate automated methods against the performance requirement specifications given in table B-1 to subpart B of part 53. A test analyzer representative of the candidate automated method must exhibit performance better than, or not outside,